

Claims

- [c1] 1.A networked health-monitoring system comprising:a plurality of remote patient sites, each site includingat least one display;a data management unit 10 configured to facilitate collection of patient health-related data;a memory and stored program instructions for generating health-monitoring related information on the display; and at least one central server connectable for commu-nication with the data management units at the patient sites to receive patient health-related data collected at the remote patient sites, wherein the system is config-ured to produce reports, including standardized reports, from the received data.
- [c2] 2.The system of claim 1, wherein the system is config-ured to allow a health care professional to select which of a plurality of standardized reports is produced.
- [c3] 3.The system of claim 2, wherein the reports use graphs and/or icons.
- [c4] The system of claim 2, wherein the reports can be gen-erated periodically.

- [c5] The system of claim 3 wherein the server can generate the report.
- [c6] The system of claim 1, wherein the system is configured to cause the presentation of at least one report on the display at a remote patient site.
- [c7] The system of claim 1, wherein the reports includes formatted statistical or trend information.
- [c8] The system of claim 2, wherein the report includes information data for a period of time.
- [c9] The system of claim 7, wherein the system can display statistical or trend information to the patient.
- [c10] The system of claim 2, wherein the report includes information data for a period of time.
- [c11] The system of claim 2, further comprising at least one health care professional computer, remotely located from and in signal communication with the central server.
- [c12] The system of claim 2, further comprising at least one health-monitoring device configured to monitor at least one patient health condition at at least one remote patient site and to communicate data related to the monitored condition to the central server.

- [c13] The system of claim 11, wherein the data management unit facilitates collection of health-related data by receiving data related to the monitored condition from at least one of the health-monitoring devices.
- [c14] The system of claim 11, wherein at least one of the health-monitoring devices includes one or more of the set consisting of a blood glucose monitor;a peak flow meter;a blood pressure monitor;a pulse monitor; and a body temperature monitor.
- [c15] The system of claim 2, wherein the data management unit is configured to facilitate collection of health-related data entered by a patient at the remote patient site using buttons, keys or switches.
- [c16] The system of claim 11, wherein the data management unit is physically separate from the display.
- [c17] The system of claim 15, wherein the memory and the display form a part of one of the health-monitoring devices.
- [c18] The system of claim 16, wherein the display is in a handheld device.
- [c19] The system of claim 17, wherein the handheld device is capable of displaying pictorial health-monitoring related

information

- [c20] The system of claim 18, wherein the handheld device is capable of displaying animated health-monitoring related information.
- [c21] The system of claim 19, wherein the memory is a program cartridge
- [c22] The system of claim 1, wherein the remote sites further include at least one personal computer connected to the data management unit.
- [c23] The system of claim 1, wherein the system is configured to transmit a message for display on at least one display.
- [c24] The system of claim 22, wherein the message includes step-by-step instructions.
- [c25] The system of claim 22, wherein the message are results of a test.
- [c26] The system of claim 22, wherein the message includes a diagnostic indication related to whether a test has proceeded in a normal fashion.
- [c27] The system of claim 22, wherein the message is a multi-line message.
- [c28] The system of claim 22, wherein the messages is a

health care professional selected message.

[c29] The system of claim 27 wherein the health-care professional generates the selected message.

[c30] The system of claim 22, wherein the message is educational or motivational.

[c31] The system of claim 27, wherein the system is configured to cause message to be transmitted to a specific patient.

[c32] The system of claim 27, wherein the system is configured to cause the message to be transmitted automatically to the patient.

[c33] The system of claim 27, wherein system enables the patient to choose when to receive the message.

[c34] The system of claim 27, wherein the messages can be stored before being transmitted to the patient.

[c35] The system of claim 2, wherein the system is configured to allow the patient to control the display of information using at least one menu.

[c36] The system of claim 35, wherein the menu allows the patient to select any one of the operational modes from the set consisting of: a display mode for displaying rele-

vant information;an input mode for providing information; anda communications mode for establishing a link with the central server.

- [c37] The system of claim 35, wherein the menu allows a patient to select a monitoring mode in which at least one of the health-monitoring devices is used.
- [c38] The system of claim 35, wherein the menu allows a patient to display messages or instructions from a health care professional.
- [c39] The system of claim 2, wherein the system is configured to enable the patient to respond to information on the display by using a cursor or other indicator positioned at a selected item.
- [c40] The system of claim 2, wherein the system is configured to enable programs to be provided, from the server for storage in a memory and execution at a remote patient site.
- [c41] The system of claim 1, wherein the patient can indicate user experienced symptoms to the system.
- [c42] The system of claim 1, wherein the system can capture quantitative measurements.
- [c43] The system of claim 42, wherein the system can capture

medication data.

- [c44] The system of claim 1, wherein the collected patient health-related data includes time data.
- [c45] The system of claim 1, wherein the healthcare professional computer receives the report after transmitting an authorization code to the server that identifies an associated healthcare professional as an authorized user.
- [c46] A method of collecting and processing patient health-related data, comprising: at a plurality of remote patient sites using stored program instructions to generate health-monitoring related information on at least one display; facilitating collection of patient health-related data using a data management unit; and collecting patient health-related data; connecting at least one central server for communication with the data management units at the patient sites to receive patient health-related data collected at the remote patient sites; and producing reports, including standardized reports, from the received data.
- [c47] The method of claim 46, further comprising allowing a health care professional to select which of a plurality of standardized reports is produced.
- [c48] The method of claim 47, wherein the reports use graphs

and/or icons.

- [c49] The method of claim 47, wherein the reports can be generated periodically.
- [c50] The system of claim 46 wherein the server generates the report.
- [c51] The method of claim 46, further comprising presenting at least one report on a display at a remote patient site.
- [c52] The method of claim 46, wherein the report includes statistical or trend information.
- [c53] The method of claim 52, wherein further comprising displaying statistical or trend information to the patient
- [c54] The method of claim 46, wherein the report includes information data for a period of time.
- [c55] The method of claim 47, further comprising remotely locating and placing in signal communication at least one health care professional computer with the central server.
- [c56] The method of claim 47, further comprising using at least one health monitoring device to monitor at least one patient health condition at least one remote patient site; and to communicate data related to the monitored

condition to the central server.

- [c57] The method of claim 56, wherein the data management unit facilitates collection of health-related data by receiving data related to the monitored condition from at least one of the health-monitoring devices.
- [c58] The method of claim 56, wherein at least one health monitoring device includes one or more of the set consisting of a blood glucose monitor; a peak flow meter; a blood pressure monitor; a pulse monitor; and a body temperature monitor.
- [c59] The method of claim 47, wherein the data management facilitates collection of health-related data entered by a patient at the remote patient site using buttons, keys or switches.
- [c60] The method of claim 56, wherein the data management unit is physically separate from the display.
- [c61] The method of claim 59, wherein the memory and the display form part of at least one of the health-monitoring devices.
- [c62] The method of claim 60, wherein the display is in a handheld device.
- [c63] The method of claim 62, wherein the memory is a pro-

gram cartridge.

- [c64] The method of claim 61, wherein the handheld device is capable of displaying pictorial health-monitoring related information
- [c65] The method of claim 62, wherein the handheld device is capable of displaying animated health-monitoring related information.
- [c66] The method of claim 46, wherein the remote sites further include at least one personal computer connected to the data management unit.
- [c67] The method of claim 46, further comprising transmitting at least one message and displaying it on at least one remote patient site display.
- [c68] The method of claim 65, wherein the message includes step-by-step instructions.
- [c69] The method of claim 65, wherein the message includes results of a test.
- [c70] The method of claim 65, wherein the message includes diagnostic information indicating whether a test has proceeded in a normal fashion.
- [c71] The method of claim 65, wherein the message is a multi-

line message.

- [c72] The method of claim 65, wherein the message is a health care professional selected message.
- [c73] The method of claim 69, wherein the health-care professional generates the selected message.
- [c74] The method of claim 65, wherein the message is educational or motivational.
- [c75] The method of claim 69, wherein the message is transmitted to a specific patient.
- [c76] The method of claim 69, wherein the message is transmitted automatically to the patient.
- [c77] The method of claim 69, wherein the patient chooses when to receive the message.
- [c78] The method of claim 69, wherein the message is stored before being transmitted to the patient.
- [c79] The method of claim 47, wherein the patient controls the display of information using at least one menu.
- [c80] The method of claim 76, wherein the menu allows a patient to select any one of the operational modes from the set consisting of:
a display mode for displaying relevant information;
an input mode for providing information;

anda communications mode for establishing a link with the central server.

- [c81] The method of claim 76, wherein the menu allows a patient to select a monitoring mode in which at least one of the health-monitoring devices is used.
- [c82] The method of claim 76, wherein the menu allows a patient to display messages or instructions from a health care professional.
- [c83] The method of claim 47, wherein the patient responds to information on the display by using a cursor or other indicator positioned at a selected item.
- [c84] The method of claim 47, further comprising: providing a program from the server to a remote patient site; and storing in a memory and executing the program at the remote patient site.
- [c85] The method of claim 46, wherein the collected patient health-related data includes user-experienced symptoms.
- [c86] The method of claim 46, wherein collected patient health-related data includes the system can capture quantitative measurements.
- [c87] The method of claim 46, wherein the system can capture

medication data.

- [c88] The system of claim 1, wherein the collected patient health-related data includes time data.
- [c89] The method of claim 46, receiving the report after transmitting an authorization code to the server that identifies an associated healthcare professional as an authorized user.
- [c90] A networked health-monitoring system comprising:
 - a plurality of remote patient sites, each site including—
 - means for display information;
 - a data management unit
 - means for facilitating collection of patient health-related data;
 - a memory means and
 - stored program means for generating health-monitoring related information on the display;
 - at least one central server for communication with the data management unit
 - means at the patient sites to receive patient health-related data collected at the remote patient sites; and
 - means for producing reports, including standardized reports, from the received data.